

ABSTRACT OF THE DISCLOSURE

In the process of the present invention for producing a xylylenediamine by a liquid-phase hydrogenation of a dicyanobenzene in the presence of a catalyst, the catalyst having its activity decreased during the course of use in
5 the hydrogenation is reactivated and a pressure drop through a fixed bed catalyst layer is got rid of, thereby regenerating the catalyst for reuse in the subsequent hydrogenation of the dicyanobenzene to produce the xylylenediamine. The catalyst is regenerated by brought into contact with a hydrogen-containing gas under controlled temperature conditions.